



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/983,041	10/22/2001	Atsushi Shibuya	PF-2894/NEC/US/mh	8200
30743	7590	08/02/2006	EXAMINER	
WHITHAM, CURTIS & CHRISTOFFERSON & COOK, P.C. 11491 SUNSET HILLS ROAD SUITE 340 RESTON, VA 20190			NGUYEN, HAI V	
			ART UNIT	PAPER NUMBER
			2142	

DATE MAILED: 08/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/983,041	Applicant(s) SHIBUYA, ATSUSHI	
	Examiner Hai V. Nguyen	Art Unit 2142	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 May 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-29,31-38,40-47 and 49-55 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-29,31-38,40-47 and 49-55 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is in response to the communication received on 09 May 2006.
2. Claims 30, 39, 48 are cancelled.
3. Claims 1-29, 31-38, 40-47, and 49-55 are presented for examination.

Response to Arguments

4. Applicant's arguments and amendments received on 09 May 2006 with respect to claims 1, 16, 29, 38, 47 have been fully considered but they are not deemed fully persuasive. Applicant's arguments are deemed moot in view of the following new ground(s) of rejection as explained here below, necessitated by Applicant's substantial amendments to the independent claims which significantly affected the scope thereof.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-29, 31-38, 40-47, and 49-55 are rejected under 35 U.S.C. 102(e) as being anticipated by Nihei U.S. Patent # **6,477,548 B1**.
7. As to claim 1, Nihei substantially teaches the invention as claimed, including a communication system (*Fig. 1*) including:
a communication network (*Fig. 1*); and

Art Unit: 2142

a plurality of terminal devices (*Fig. 1, clients and servers CTCs*) connectable to said communication network for transmitting and receiving an information item (*Fig. 3A, a merchandise record*) through said communication network;

wherein said communication system includes a table (*Fig. 3C*) which provides at least one retrieval condition (*Fig. 3C, a desired merchandise code or a retrieve key*) and for each said retrieval condition at least one corresponding identifier for an image file (*Fig. 3A, image link number*) to be displayed, so as to enable said terminal devices (*clients*) to detect in said information item said at least one retrieval condition and if the retrieval condition is detected to display said information item with said at least one corresponding identified image file (*Figs. 1, 5, 6, A7 displays information on detailed screen; B7 displays content of registered record on registered-record change screen; col. 6, line 46 – col. 7, line 63; col. 8, line 51 – col. 9, line 26*).

8. As to claim 2, Nihei teaches wherein each retrieval condition in said table comprises a key object (*merchandise code*).

9. As to claim 3, Nihei teaches wherein each said key object comprises at least one object selected from the group consisting of key words and key marks (*merchandise names*).

10. As to claim 4, Nihei teaches wherein said table includes designating data which designate data (*Fig. 3C, change data*) for displaying said information item with said at least one corresponding identified image file.

Art Unit: 2142

11. As to claim 5, Nihei teaches wherein said table includes necessary data (*Fig. 3C, change data*) for displaying said information item with said at least one corresponding identified image or sound file.
12. As to claim 6, Nihei teaches wherein said table is editable (*Fig. 3C*).
13. As to claim 7, Nihei teaches wherein said table is transferable through said communication network (*Figs. 1, 3, 5, 6; col. 6, line 46 – col. 7, line 63; col. 8, line 51 – col. 9, line 26*).
14. As to claim 8, Nihei teaches wherein said information item comprises an e-mail (*Figs. 7, 8; C16, D4*).
15. As to claim 9, Nihei teaches wherein said e-mail has at least an attached file (*Figs. 7, 8; record of the record-accessed client computers C14*).
16. As to claim 10, Nihei teaches wherein said table is stored in a memory of said terminal device (*Fig. 1, 4, storage 12 LDB*).
17. As to claim 11, Nihei teaches, wherein said table is open on a server computer on said communication network, so as to enable said terminal device to download said table from said server (*Figs. 1, 2, 7, 8, storage 2, Fig. 7, C3*).
18. As to claim 12, Nihei teaches wherein each of said terminal devices includes:
a first function block (*Fig. 5, A2; Fig. 6, B2*) for performing said retrieval under said retrieval condition with reference to said table; and
a second function block (*Fig. 5, A7; Fig. 6, B7*) for displaying said information item in accordance with said at least one corresponding identified image file.

Art Unit: 2142

19. As to claim 13, Nihei teaches wherein each of said terminal devices further includes:

a third function block (*Fig. 5, A3, A4; Fig 6, B3, B4*) for transmitting and receiving said table through said communication network.

20. As to claim 14, Nihei teaches wherein each of said terminal devices includes:

a processing unit (*Fig. 4, CPU 11*); and

a memory accessible by said processing unit, and said memory storing a computer program (*Fig. 4, storage 12*) comprising the steps of

means for performing said retrieval under said at least one retrieval condition with reference to said table (*Fig. 5, A2; Fig. 6, B2*); and

means for displaying said information item in accordance with said at least one corresponding identified image file (*Fig. 5, A7; Fig. 6, B7*).

21. As to claim 15, Nihei teaches transmitting and receiving said table through said communication network (*Fig. 5, A3, A4; Fig 6, B3, B4*).

22. Claim 16 corresponds to the apparatus claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

23. Claims 17-24 have similar limitations of claims 2-9; therefore, they are rejected under the same rationale as in claims 2-9.

24. Claims 25-28 have similar limitations of claims 12-15; therefore, they are rejected under the same rationale as in claims 12-15.

25. Claim 29 corresponds to the apparatus claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

Art Unit: 2142

26. Claims 31-37 have similar limitations of claims 2, 4-9; therefore, they are rejected under the same rationale as in claims 2, 4-9.

27. Claim 38 corresponds to the method claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

28. Claims 40-46 have similar limitations of claims 2-6, 8-9; therefore, they are rejected under the same rationale as in claims 2-6, 8-9.

29. Claim 47 corresponds to the computer readable medium claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

30. Claims 49-55 have similar limitations of claims 2-6, 8-9; therefore, they are rejected under the same rationale as in claims 2-6, 8-9.

Claim Rejections - 35 USC § 102

31. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

32. Claims 1-7, 10-22, 25-29, 31-35, 38, 40-44, 47 and 49-53 are rejected under 35 U.S.C. 102(e) as being anticipated by **Takayama U.S. Patent # 6,477,528 B1**.

33. As to claim 1, Takayama substantially teaches the invention as claimed, including a communication system (*Fig. 1*) including:

Art Unit: 2142

a communication network (*Fig. 1*); and

a plurality of terminal devices (*Fig. 1, computer 1* connectable to said communication network for transmitting and receiving an information item (*Figs. 6,8,12, Cabinet/Folder*) through said communication network;

wherein said communication system includes a table (*Fig. 5*) which provides at least one retrieval condition (*Fig. 5A, keyword A, B, S, T; Fig. 5B, keywords D, E, F, G; Fig. 5C, keywords H, I, J, K*) and for each said retrieval condition at least one corresponding identifier for an image file (*Fig. 6, page 1 in display area 202; Fig. 8, page 9; Fig. 12, XYZ.TXT file in folder BBB*) to be displayed, so as to enable said terminal devices to detect in said information item said at least one retrieval condition and if the retrieval condition is detected to display said information item with said at least one corresponding identified image file (*Figs. 7, 8, 12, col. 8, lines 26-41, lines 45-60; lines col. 10, lines 10-18; col. 11, lines 47-54*).

34. As to claim 2, Takayama teaches wherein each retrieval condition in said table comprises a key object (*keyword*).

35. As to claim 3, Takayama teaches wherein each said key object comprises at least one object selected from the group consisting of key words and key marks (*keywords*).

36. As to claim 4, Takayama teaches wherein said table includes designating data which designate data (*Fig. 5*) for displaying said information item with said at least one corresponding identified image file.

Art Unit: 2142

37. As to claim 5, Takayama teaches wherein said table includes necessary data (*Fig. 5*) for displaying said information item with said at least one corresponding identified image.

38. As to claim 6, Takayama teaches wherein said table is editable (*Fig. 5*).

39. As to claim 7, Takayama teaches wherein said table is transferable through said communication network (*Fig. 1*).

40. As to claim 10, Takayama-Nihei discloses wherein said information item comprises an e-mail (*Nihei, Figs. 7, 8; C16, D4*).

41. As to claim 11, Takayama-Nihei discloses, wherein said table is open on a server computer on said communication network, so as to enable said terminal device to download said table from said server (*Nihei, Figs. 1, 2, 7, 8, storage 2, Fig. 7, C3*).

42. As to claim 12, Takayama-Nihei discloses wherein each of said terminal devices includes:

a first function block (*Nihei, Fig. 5, A2; Fig. 6, B2*) for performing said retrieval under said retrieval condition with reference to said table; and

a second function block (*Nihei, Fig. 5, A7; Fig. 6, B7*) for displaying said information item in accordance with said at least one corresponding identified image file.

43. As to claim 13, Takayama-Nihei discloses wherein each of said terminal devices further includes:

a third function block (*Nihei, Fig. 5, A3, A4; Fig 6, B3, B4*) for transmitting and receiving said table through said communication network.

Art Unit: 2142

44. As to claim 14, Takayama-Nihei discloses wherein each of said terminal devices includes:

a processing unit (*Nihei, Fig. 4, CPU 11*); and

a memory accessible by said processing unit, and said memory storing a computer program (*Nihei, Fig. 4, storage 12*) comprising the steps of

means for performing said retrieval under said at least one retrieval condition with reference to said table (*Nihei, Fig. 5, A2; Fig. 6, B2*); and

means for displaying said information item in accordance with said at least one corresponding identified image file (*Nihei, Fig. 5, A7; Fig. 6, B7*).

45. As to claim 15, Takayama-Nihei discloses transmitting and receiving said table through said communication network (*Nihei, Fig. 5, A3, A4; Fig 6, B3, B4*).

46. Claim 16 corresponds to the apparatus claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

47. Claims 17-24 have similar limitations of claims 2-9; therefore, they are rejected under the same rationale as in claims 2-9.

48. Claims 25-28 have similar limitations of claims 12-15; therefore, they are rejected under the same rationale as in claims 12-15.

49. Claim 29 corresponds to the apparatus claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

50. Claims 31-37 have similar limitations of claims 2, 4-9; therefore, they are rejected under the same rationale as in claims 2, 4-9.

Art Unit: 2142

51. Claim 38 corresponds to the method claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

52. Claims 40-46 have similar limitations of claims 2-6, 8-9; therefore, they are rejected under the same rationale as in claims 2-6, 8-9.

53. Claim 47 corresponds to the computer readable medium claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

54. Claims 49-55 have similar limitations of claims 2-6, 8-9; therefore, they are rejected under the same rationale as in claims 2-6, 8-

Claim Rejections - 35 USC § 103

55. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

56. Claims 8, 9, 23, 24, 36, 37, 45, 46, 54, 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Takayama** as applied to claims 1-7 above, and further in view of **Nihei U.S. Patent # 6,477,548 B1**.

57. As to claim 8, Takayama does not explicitly disclose wherein said information item comprises an e-mail.

In the same field of endeavor, Nihei disclose transmitting the merchandise change message to all of the record-accessed client computers via an electronic mail (*Nihei, Fig. 7, step C16*).

Art Unit: 2142

Accordingly, it would have been obvious to one of ordinary skill in the networking art at the time the invention was made to have incorporated Nihei's teachings of transmitting information via the email (*Nihei, Abstract, Fig. 7, C16*) with the teachings of Takayama, for the purpose of *delivery of merchandise information (Nihei, Fig. 7)*.

58. As to claim 9, Takayama-Nihei discloses wherein said e-mail has at least an attached file (*Nihei, Figs. 7, 8; record of the record-accessed client computers C14*).

59. As to claim 10, Takayama-Nihei discloses wherein said information item comprises an e-mail (*Nihei, Fig. 7, C16, Fig. 8, D4*).

60. As to claim 11, Takayama-Nihei discloses, wherein said table is open on a server computer on said communication network, so as to enable said terminal device to download said table from said server (*Nihei, Figs. 1, 2, 7, 8, storage 2, Fig. 7, C3*).

61. As to claim 12, Takayama-Nihei discloses wherein each of said terminal devices includes:

a first function block (*Nihei, Fig. 5, A2; Fig. 6, B2*) for performing said retrieval under said retrieval condition with reference to said table; and

a second function block (*Nihei, Fig. 5, A7; Fig. 6, B7*) for displaying said information item in accordance with said at least one corresponding identified image file.

62. As to claim 13, Takayama-Nihei discloses wherein each of said terminal devices further includes:

a third function block (*Nihei, Fig. 5, A3, A4; Fig 6, B3, B4*) for transmitting and receiving said table through said communication network.

Art Unit: 2142

63. As to claim 14, Takayama-Nihei discloses wherein each of said terminal devices includes:

a processing unit (*Nihei, Fig. 4, CPU 11*); and

a memory accessible by said processing unit, and said memory storing a computer program (*Nihei, Fig. 4, storage 12*) comprising the steps of

means for performing said retrieval under said at least one retrieval condition with reference to said table (*Nihei, Fig. 5, A2; Fig. 6, B2*); and

means for displaying said information item in accordance with said at least one corresponding identified image file (*Nihei, Fig. 5, A7; Fig. 6, B7*).

64. As to claim 15, Takayama-Nihei discloses transmitting and receiving said table through said communication network (*Nihei, Fig. 5, A3, A4; Fig 6, B3, B4*).

65. Claim 16 corresponds to the apparatus claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

66. Claims 17-24 have similar limitations of claims 2-9; therefore, they are rejected under the same rationale as in claims 2-9.

67. Claims 25-28 have similar limitations of claims 12-15; therefore, they are rejected under the same rationale as in claims 12-15.

68. Claim 29 corresponds to the apparatus claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

69. Claims 31-37 have similar limitations of claims 2, 4-9; therefore, they are rejected under the same rationale as in claims 2, 4-9.

Art Unit: 2142

70. Claim 38 corresponds to the method claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

71. Claims 40-46 have similar limitations of claims 2-6, 8-9; therefore, they are rejected under the same rationale as in claims 2-6, 8-9.

72. Claim 47 corresponds to the computer readable medium claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

73. Claims 49-55 have similar limitations of claims 2-6, 8-9; therefore, they are rejected under the same rationale as in claims 2-6, 8-

74.

Claim Rejections - 35 USC § 102

75. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

76. Claims 1-29, 31-38, 40-47, and 49-55 are rejected under 35 U.S.C. 102(e) as being anticipated by **Haneda U.S. Patent # 6,856,414 B1**.

77. As to claim 1, Haneda substantially teaches the invention as claimed, including a communication system (*Fig. 1*) including:
a communication network (*Fig. 1*); and

Art Unit: 2142

a plurality of terminal devices (*Fig. 1, clients 1*) connectable to said communication network for transmitting and receiving an information item (*Fig. 21, search page*) through said communication network;

wherein said communication system includes a table (*Fig. 6*) which provides at least one retrieval condition (*Fig. 6, keyword 1, for example*) and for each said retrieval condition at least one corresponding identifier for an image file (*Fig. 6, imageinfo1, for example*) to be displayed (*Fig. 23-25*), so as to enable said terminal devices (*clients*) to detect (*to search*) in said information item said at least one retrieval condition and if the retrieval condition is detected to display said information item with said at least one corresponding identified image file (*Figs. 24-26, identified image file A41*).

78. As to claim 2, Haneda teaches wherein each retrieval condition in said table comprises a key object (*keywords*).

79. As to claim 3, Haneda teaches wherein each said key object comprises at least one object selected from the group consisting of key words and key marks (*Figs. 24-26, keywords, key marks A35- A37*).

80. As to claim 4, Haneda teaches wherein said table includes designating data which designate data (*Fig. 23, A35, A36*) for displaying said information item with said at least one corresponding identified image file (*Figs. 24-26, identified image file A41*).

81. As to claim 5, Haneda teaches wherein said table includes necessary data (*Fig. 23-26, info1, info2, ...*) for displaying said information item with said at least one corresponding identified image or sound file.

82. As to claim 6, Haneda teaches wherein said table is editable (*Fig. 23-28*).

Art Unit: 2142

83. As to claim 7, Haneda teaches wherein said table is transferable through said communication network (*Fig. 2*).

84. As to claim 8, Haneda teaches wherein said information item comprises an e-mail (*a message*).

85. As to claim 9, Haneda teaches wherein said e-mail has at least an attached file (*Figs. 23-26; an attached file A44*).

86. As to claim 10, Haneda teaches wherein said table is stored in a memory of said terminal device (*Fig. 2, storage 4*).

87. As to claim 11, Haneda teaches, wherein said table is open on a server computer on said communication network, so as to enable said terminal device to download said table from said server (*Fig. 14, box 54*).

88. As to claim 12, Haneda teaches wherein each of said terminal devices includes: a first function block (*Fig. 22*) for performing said retrieval under said retrieval condition with reference to said table; and a second function block (*Fig. 23*) for displaying said information item in accordance with said at least one corresponding identified image file (*Fig. 22; A35, A36*).

89. As to claim 13, Haneda teaches wherein each of said terminal devices further includes: a third function block (*Fig. 2*) for transmitting and receiving said table through said communication network.

90. As to claim 14, Haneda teaches wherein each of said terminal devices includes: a processing unit (*Fig. 2, box 5*); and

Art Unit: 2142

a memory accessible by said processing unit, and said memory storing a computer program (*Fig. 2, storage 4*) comprising the steps of means for performing said retrieval under said at least one retrieval condition with reference to said table (*Fig. 2, html engine 3*); and means for displaying said information item in accordance with said at least one corresponding identified image file (*Fig. 2, display 2*).

91. As to claim 15, Haneda teaches transmitting and receiving said table through said communication network (*Fig. 2*).

92. Claim 16 corresponds to the apparatus claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

93. Claims 17-24 have similar limitations of claims 2-9; therefore, they are rejected under the same rationale as in claims 2-9.

94. Claims 25-28 have similar limitations of claims 12-15; therefore, they are rejected under the same rationale as in claims 12-15.

95. Claim 29 corresponds to the apparatus claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

96. Claims 31-37 have similar limitations of claims 2, 4-9; therefore, they are rejected under the same rationale as in claims 2, 4-9.

97. Claim 38 corresponds to the method claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

98. Claims 40-46 have similar limitations of claims 2-6, 8-9; therefore, they are rejected under the same rationale as in claims 2-6, 8-9.

Art Unit: 2142

99. Claim 47 corresponds to the computer readable medium claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.

100. Claims 49-55 have similar limitations of claims 2-6, 8-9; therefore, they are rejected under the same rationale as in claims 2-6, 8-9.

Conclusion

101. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Art Unit: 2142

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai V. Nguyen whose telephone number is 571-272-3901. The examiner can normally be reached on 6:00-3:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hai V. Nguyen
Examiner
Art Unit 2142


THONG VU
P.E.